

Amendments to the Specification:

Page 8, paragraph beginning on line 19 through page 9, line 7, replace with the following paragraph:

The sprinkler head according to the present invention comprises: a first housing 2 connected to a water supply pipe 1 disposed inside a building ceiling 60; a second housing 4 coupled to the first housing 2 and disposed at a penetration hole 5 formed at the ceiling 60 61; a deflector 6 disposed in the second housing 4 and adhered to the first housing 2 in a sealing-available manner, for maintaining a sealing state of a lower end of the first housing 2 in the ordinary time and spraying water all around at the time of a fire occurrence by being detached from the first housing 2; a locking unit 8 locked at an inner circumferential surface of the second housing 4 for supporting the deflector 6 so that the first housing 2 can be sealed; and a heat responding unit 10 exposed to outside of the ceiling 60 61 for sensing heat at the time of a fire occurrence and thus releasing a locking of the locking unit 8.

Page 10, paragraph beginning on line 1 through line 2, replace with the following paragraph:

The lower surface of the second housing 4 is positioned on the same plane as that of the ceiling 60 61 by the bracket 36.

Page 11, paragraph beginning on line 19 through line 23, replace with the following paragraph:

Since the locking unit 8 and the heat responding unit 10 are inserted into the inside of the second housing 4 from the lower surface of the second housing positioned on the same plane as the lower surface of the ceiling 60 61 with the height L, the entire height R of the sprinkler head exposed from the ceiling 60 61 can be decreased.

Page 12, paragraph beginning on line 5 through line 12, replace with the following paragraph:

That is, when a fire breaks out, heated air flow is elevated thus to flow along the ceiling 60 61. The air flow is introduced into the air flow collecting portion 70 and temporarily stays with generating a swirl flow. According to this, heat is fast transmitted to the heat collecting plates 54, 56, and 58 positioned at the lower side of the air flow collecting portion 70 thus to enhance the heat collecting function of the heat collecting plates 54, 56, and 58. Therefore, the heat collecting plates are fast heated at the time of a fire occurrence thereby to enhance a responsiveness.

Page 13, paragraph beginning on line 21 through page 14, line 4, replace with the following paragraph:

The interval Q between the heat collecting plates 54,56, and 58 is formed to be much smaller than the interval between the conventional heat collecting plates, so that the sprinkler head can be positioned near the ceiling 60 61 as much as possible. Also, at the time of a fire occurrence, heated air flow introduced into the space among the heat collecting plates 54,56, and 58 transmits heat sufficiently to the heat collecting plates 54, 56, and 58 while staying for a certain time, and then the heated air passes through the heat collecting plates.

Page 14, paragraph beginning on line 5 through line 10, replace with the following paragraph:

That is, heated air flow is elevated thus to flow in a lateral direction of the ceiling 60 61 at the time of a fire occurrence and to be introduced into the heat collecting plates 54, 56, and 58. Herein, since the interval between the heat collecting plates is small, a flow resistance is

generated. Therefore, the air flow passes through the heat collecting plates slowly and thereby sufficiently transmits heat to surfaces of the heat collecting plates.

Page 15, paragraph beginning on line 11 through line 16, replace with the following paragraph:

When the assembly of the sprinkler head is completed, the male screw portion 12 formed at the upper portion of the first housing 2 is coupled to the water supply pipe 1 through the penetration hole 5 formed at the ceiling ~~60~~ 61, and the second male screw portion 38 of the second housing 4 is coupled to the bracket 36 mounted at the penetration hole 5 of the ceiling ~~60~~ 61, thereby completing to mount the sprinkler head to the ceiling.

Page 15, paragraph beginning on line 21 through page 16 line 5, replace with the following paragraph:

As shown in Figure 6A, at the time of a fire occurrence under a state that the sprinkler head is assembled to the ceiling ~~60~~ 61, heat air flow is elevated thus to flow along the ceiling and to be introduced into the air flow collecting portion 70 formed at the second housing 2. The air flow generates a swirl flow while staying temporarily, and thereby heat is fast transmitted to the first heat collecting plate 54 positioned at the lower side of the air flow collecting portion 70. Also, the air flow transmits heat to the heat collecting plates 54, 56, and 58 by passing through the space among the heat collecting plates 54, 56, and 58.